

AMENDMENT TO THE CLAIMS

1.(Currently Amended) A computer-readable medium providing a computer-loadable data structure representing a state-and-transition-based description of a speech grammar, the data structure comprising:

rule entries, each rule entry representing a group of transitions;

a first transition entry representing a transition from a first state; and

a second transition entry representing a second transition from the first state, the second transition entry being contiguous with the first transition entry and having a last-transition value set to indicate that the second transition is the last transition from the first state, wherein at least one transition entry has a content index value that is an index to a rule entry in the rule entries.

2.(Original) The computer-readable medium of claim 1 wherein each transition entry has a fixed size.

3.(Original) The computer-readable medium of claim 2 wherein the data structure further comprises a word string comprising words found in the speech grammar.

4.(Original) The computer-readable medium of claim 3 wherein each transition entry has a content index value that designates content associated with the transition.

5.(Original) The computer-readable medium of claim 4 wherein at least one transition entry has a content index value that is an index into the word string.

6. (Canceled)

7. (Canceled)

8. (Currently Amended) The computer-readable medium of claim 7
5 wherein each transition entry further comprises a rule
reference flag field that indicates whether the content index
value is an index into the word string or an index to a rule
entry.

9. (Currently Amended) The computer-readable medium of claim 7
wherein each rule entry is a same fixed size as all other rule
entries.

10. (Original) The computer-readable medium of claim 9 wherein
each rule entry comprises a starting transition value that
provides an index to a transition entry that represents the first
transition for the rule.

11. (Canceled)

12. (Canceled)

13. (Currently Amended) The computer-readable medium of claim
27~~12~~ wherein each semantic entry further comprises a transition
index value that provides an index to a transition entry that
represents the transition associated with the semantic
information of the semantic entry.

14. (Canceled)

15. (Canceled)

16. (Canceled)

17. (Canceled)

18. (Canceled)

19. (Canceled)

20. (Canceled)

21. (Previously Presented) A computer-readable medium that provides a computer-loadable data structure representing a speech grammar, the data structure comprising:

 a string of words containing words in the speech grammar; and

 a set of fixed size transition entries, each transition entry representing a transition in a structure that describes the speech grammar and each transition entry having a same fixed size as all other transition entries in the set of transition entries, at least one transition entry making reference to a word in the string of words.

22. (Previously Presented) The computer-readable medium of claim 21 wherein the data structure further comprises:

 a set of fixed size rule entries, each rule entry representing a collection of transitions in the structure, each rule entry having the same fixed size as other rule entries and each entry including an index to a transition entry that represents the first transition in the collection of transitions.

23.(Original) The computer-readable medium of claim 21 wherein each transition entry comprises a last transition flag that indicates whether the transition for the transition entry is the last transition from a state in the structure.

24.(Original) The computer-readable medium of claim 21 wherein each transition entry comprises a semantic tag flag that indicates whether semantic information is associated with the transition for the transition entry.

25.(Original) The computer-readable medium of claim 24 wherein the data structure further comprises:

- a string of symbols comprising text representing semantic tags and semantic values; and
- a set of fixed size semantic entries, at least one semantic entry making reference to a semantic tag in the string of symbols.

26.(Original) The computer-readable medium of claim 21 wherein each transition entry comprises a next transition field that provides an index to a transition entry that represents a next transition in the structure.

27. (New) A computer-readable medium providing a computer-loadable data structure representing a state-and-transition-based description of a speech grammar, the data structure comprising:

- a first transition entry representing a transition from a first state;
- a second transition entry representing a second transition from the first state, the second transition entry being contiguous with the first transition entry and having a last-transition

value set to indicate that the second transition is the last transition from the first state;
a symbol string formed of a sequence of symbols; and
a set of semantic entries, each semantic entry representing semantic information associated with a transition in the grammar and each semantic entry comprising a name offset that provides an offset to a symbol in the symbol string, the symbol identified by the offset representing a semantic tag.